SOROKINA, M.I. (Moskva, B-311, 1-aya ul. Stroiteley, 6, korp.6, kv.43)

Problem of desmogenous and chrondrogenic differentiation of the mesenchyma. Arkh arat. gist i embr. 38 no. 6:17-21 Je '60. (MIRA 13:12)

1. Laboratoriya tsitologii (zav. - chlen-korrespondent AN SSSR zasluzhennyy deyatel' nauki prof. G.K. Khrushchov) Instituta morfologii zhivotnykh AN SSSR.

(CONNECTIVE TISSUE) (BLOOD VESSELS) (LYMPHATICS)

SOROKINA, M.I.

Karyological characteristics of desmogenetic and chondrogenetic mesenchymal differentiations in the process of histogenesis.

Dokl. AN SSSR 135 no.4:975-977 160. (MIRA 13:11)

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR. Predstavleno akademikom A.N.Bakulevym. (Embryology) (Connective tissues)

SOROKINA, M.I.; CHILINGARIDI, Ye.K.; KOZLOV, Yu.G.; GORBOVITSKIY, Ye.B. (Moskva)

Treatment of acute renal insufficiency by hemodialysis using an "artificial kidrey" apparatus of Soviet manufacture. Klin. med. no.3:27-31 '62. (MIRA 15:3)

1. Iz otdeleniya "iskusstvennaya pochka" I Moskovskogo ordena Lenina meditsinskogo instituta (dir. - chlen-korrespondent AMN SSSR V.V. Kovanov, glavnyy vrach B.S. Bobov, nauchnyye rukovoditeli - zasluzhemnyy deyatel' nauk prof. N.N. Yelanskiy i prof. I.M. Epshteyn).

(RENAL INSUFFICIENCY) (KIDNEYS, ARTIFICIAL)

SOROKINA, M.I. (Moskva, V-311, 1-ya Stroitel'naya ul. 6, korp.6,kv.43)

Characteristics of the structure of the mechanism of mitosis in desmogenic and chondrogenic differentiations of mesenchyma in the process of histogenesis. Arkh. anat., gist. i embr. (MIRA 15:6) 42 no.6:36-43 Je 162.

l. Laboratoriya tsitologii (zav. - chlen-korrespondent AN SSSR zasluzhennyy deyateli nauki prof. G.K. Khrushchov) Instituta morfologii zhivotnykh imeni A.N. Severtsova AN SSSR.

(CONNECTIVE TISSUES) (CARTILAGE) (KARYOKINESIS)

CIA-RDP86-00513R001652520001-9" APPROVED FOR RELEASE: 08/23/2000

VERTEFOVA, V.N., dots.; VOL'FYAN, Ye.L., ass.; ZAMIKHOVSKIY,
I.Z., ass.; RAMENSKIY, S.B., prepod.; SONOKINA, M.I.,
prepod.; EPSHTEYH, I.M., prof., red.; SHUHUKIN, P.I.,
red.;

[Methodological instructions for practical work in urology]
Metodicheskie ukazaniia k prakticheskim zaniatiiam po uroMetodicheskie ukazaniia. Moskva, 1963. 37 p.
logii. Pod red. I.M.Epshteina. Moskva, 1963. 37 p.
(MIRA 16:12)

1. Moscow. Pervyy meditsinskiy institut.
(UROLOGY—HANDEOOKS, MANUALS, ETC.)

Mitochondria in the process of desmogenous and chondrogenous differentiation of the mesenchyme. Arkh. anat., gist. i embr.

1. Laboratoriya tsitologii (zav. - chlen-korrespondent AN SSSR, zasluzhennyy deyatel' nauki, prof. G.K. Khrushchov [deceased]) Instituta morfologii zhivotnykh imeni A.N. Severtsova AN SSSR, Moskva. Submitted December 12, 1963.

SOLOV'YEVA, N.K.; IL'INSKAYA, S.A.; TAYO, M.M.; SAVEL'YEVA, A.M.; SOROKINA, N.A.

Antiblotics from certain Actinomyce inc forming coremia. Antibiotiki,

h no.2:40-45 Mr-Ap '59.

(MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

Prod. from coremia-forming Actinomyces (Rus))

(ACTINOMYCES, culture)

coremia-forming & antibiotic-prod. strains (Rus))

SOLOVIYEVA, M.K.; TAYG, M.M.; TRAKHTENBERG, D.M.; BIRLOVA, L.V.; SOROKINA, N.A.

Characteristics of the organism producing the antiviral antibictic vaccinocidin, its isolation and properties. Antibiotiki 9 nc.7:596-602 J1 164. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibictikov, Moskva.

s/890/61/000/002/007/007 A059/A126

AUTHOR:

Sorokina, N.A., Engineer

TITLE:

The stability of oils in the operation of an automotive engine, and

the influence of additives on it

SOURCE:

Moscow. Nauchno-issledovatel skiy institut avtomobil nogo transporta. Ekspluatatsionno-tekhnicheskiye svoystva i primeneniye avtomobil nykh topliv, smazochnykh materialov i spetszhidkostey. no.

2, 1961, 51 - 57

TEXT: This study of the resistance to oxidation of oils containing various additives in a finely dispersed state performed in a device developed by NIIAT is the continuation of the paper "Ekspluatatsionno-tekhnicheskiye svoystva i primeneniye avtomobil'nykh topliv, smazochnykh materialov i spetszhidkostey" (Working and technical qualities and use of automobile fuels, lubricants, and special-purpose liquids) published in this collection in 1959. By performing laboratory tests on the oxidation of the oil samples ДС-8 (DS-8) either additive-free or containing various additives [BHUM HII-360 (VNII NP-360, ДΦ-1 (DF-1), ΠΜС-19 (PMS-19), ЦИАТИМ-339 (TSIATIM-339), and a mixture of the non-Soviet additives

Card 1/2

The stability of oils in the operation of an

S/890/61/000/002/007/007 A059/A126

612 and 1060] with the apparatus of NIIAT, it has been established that the highest-grade Soviet additive is VNII NP-360. Tests performed on the oil DS-8, additive-free and containing VNII NP-360 and DF-1, respectively, after having been kept in the engine FA3-51 (GAZ-51) (containing no fine-mesh filter) for 105 h by alternating "hot" and "cold" cycles have shown that the additive VNII NP-360 improves the stability of the basic oil by reducing the formation of oxidative and condensation products by 27% as compared to the other oils tested, was carried out under the guidance of N,V, Brusyantsev. There are 1 figures and 2 tables.

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520001-9

s/081/62/000/018/039/059 B166/B180

AUTHOR:

Sorokina, N. A.

TITLE:

Determination of the impurity content in used automobile

engine oils Referativnyy zhurnal. Khimiya, no. 18, 1962, 454, abstract

PERIODICAL:

M8M214 (In collection: Ekspluat.-tekhn. svoystva i primeneniye avtomob. topliv, smazochn. materialov i spetszhidkostey. no. 2. M., Avtotransizdat, 1961, 62-68)

TEXT: Two methods have been worked out for determining the impurity content, both overall and by components, in oils with different additives, used in automobile engines and other mechanisms. In the method which uses cryolite as the filtering agent, the overall impurity content of the 'oil can be determined and the concentration of the different components of . these impurities shown. In this case the mechanical impurities are determined together with the carbenes and carboids, since relatively high temperature calcination cannot be carried out with cryolite. This method is therefore recommended for analysis of oils containing no

Card 1/2

BRUSYANTSEV. N.-V., kand. tekan. nauk; SOROKIMA, N.A., inzh.

Objects of testirg. Ekspl.-tekh. svois, i prim. avt. top. Smgz.
mat. i spetszhid. no.3:48-56 '63. (MIRA 17:10)

SOROKIMA, N.A., inzh.

Determining the admixture content in cils used in motor-vehicle engines. Ekspl.-tekh. svois. i prim. avt. top. smax. mat. i spetszhid. no.3:83-85 163. (MIRA 17:10)

NEUYMIN, G.G.; SOROKINA, N.A.

Optical dispersing layers in the sea. Okeanologiia 4 no.1:51-54

1. Chernomorskoye otdeleniye Morskogo gidrofizicheskogo instituta AN UkrSSR.

N UYMIN, G.G.; SORCKINA, N.A.; PARAMONOV. A.N.; PROSHOHIN, V.N.

Some results of ortical investigations in the northern part of the Atlantic Ocean. Trudy Mor. gidrofiz. inst. AN URSA 29:64-75 '64. (MTRA 17:7)

Optical Investigations in the Northern Part of the Atlantic

SOKER KINN A

On the seventh voyage of the "Mikhail Lomonosov" measurements were made of the following hydrooptical characteristics in the northern part of the Atlantic Ocean: transparency (index of attenuation) of ocean water (in 5 spectral parts of the visible region of the spectrum and in "white" light), underwater illumination of a horizontal surface by light propagating downward and upward (in 4 spectral parts of the visible region), and determination of the depth of visibility of a white disk and water color, using a standard method. There is a map showing the track of the vessel and the stations occupied for hydrooptical measurements. Detailed information, including diagrams and tables, is given for these different types of investigations for the different stations and parts of the Atlantic. The information is compared with that published by Clarke, Gall, Duntley and others.

(Abstract: "Some Results of Optical Investigations in the Northern Part of the Atlantic", by G. G. Neuymin, N. A. Sorokina, A. N. Paramonov and V. N. Paramonov and V. N. Paramonov and V. N. Proshchin; Kiev, Gidrologicheskiye Issledovaniya, 1964, pp. 64-75)

JPR5: 31, 596, 18 aug 65

16(1),16(2)

AUTHOR:

Sorokina, N.G.

SOV/41-11-2-15/17

TITLE:

On a Theorem of N.N.Bogolyubov

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2,

pp 220-222 (USSR)

ABSTRACT:

The theorem on the plate proved by N.N.Bogolyubov in the theory

of dispersion relations is proved by the author in a plain

manner with the aid of the results of Dyson.

There are 3 references, 1 of which is Soviet, 1 Italian, and

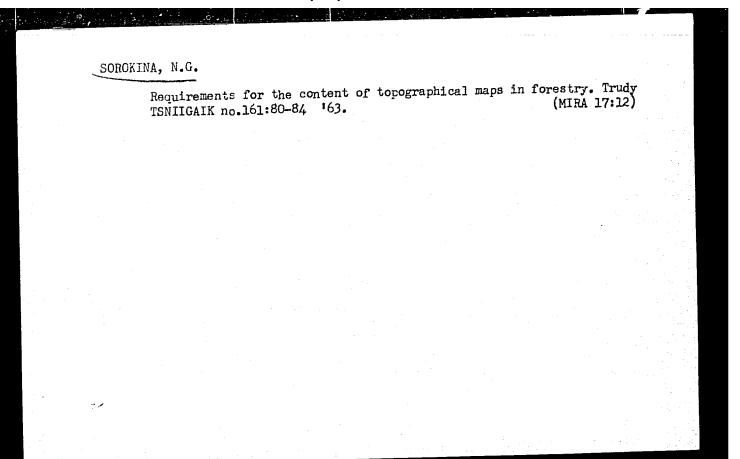
1 American.

SUBMITTED: December 4, 1958

Card 1/1

LOZINOVA, V.M.; SOROKINA, N.G.

Requirements for the content of topographic maps in soil and geobotanical surveying for agricultural purposes. Trudy TSNIIGAIK no.161:67-79 '63. (MIRA 17:12)



KUDRYAVTSEV, N.T.; POTAPOV, I.I.; SOROKINA, N.G.

Investigating the electrolytic deposition of chronium from solutions of its trivalent compounds. Zashch. met. 1 no.3: 304-307 My-Je '65. (MIRA 18:8)

l. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

SOROKINA, N.I.

On some problems in the representation of populated places on
On some problems. Trudy TSNIIGAIK no.92:155-187 '53.

general geographic maps. (Cartography)

(Cartography)

VANISHEIDT, A.A.; MAJMOVA, Z.K.: SOROKIMA, M.I.

Melamine

Condensation of melamine with formaldehyde and preparation of melamine-formaldehyde resins and plastics, Zhur. prikl. khim 20 No. 3, 1947

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

DOIGOV, B.N., professor, SOROKINA, N.

Reaction capacity of aluminum chloride prepared by Radsivanovskii's method. Nauch. biul. Len. un. no.22:21-22 '49. (MIRA 10:4)

1. Kafedra organicheskoy khimii.

(Aluminum chloride)

SOROKINA, N. I.

176720

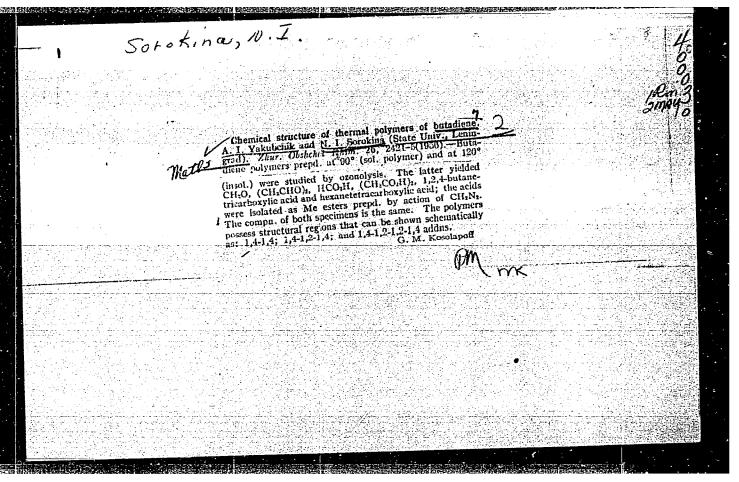
USSR/Chemistry - Antiknock Fuels

Mar 51

"Condensation of Benzene With Aliphatic Polyhalides Usine AlCl₃ Prepared According to Radzivanovskiy," B. N. Dolgov, N. I. Sorokina, A. S. Cherkasov, Chair of Org Chem, Leningrad State

"Zhur Obshch Khim" Vol XXI, No 3, pp 509-516

Condensed MeI, (I), iso-PrCl (II) isco-BuCl (III), and iso-AmCl (IV) with C6H6 in presence of AlCl3 obtained by Radzivanovskiy method. Yields of monoalkylbenzenes deflined in above order. Condensation of C6H6 with following yielded resp: with I up to 11.5% penta- and hexamethylbenzenes; with II-IV decreasing yields of di- and trialkyl-benzenes as mol wt offradicals increased; with III and IV chiefly tert-Bu- and tert-AmC6H6 (linked with ismerization and splitting of iso-C5H12 side with inain; with CHCl3 up to 38% Ph2CH3 and 3-4% Ph3CH3.



	T(m)/EPF(c)/EWP(j)/TPG T5019606	UR/0000/64/	000/000/0091/0100 3	0]
AUTHOR: Korotko	v, A. A.; Chevychalova, K	. K.; Sorokina, N. I.	<i>(</i>	7
TITLE: Effect of polymerization wi	f contaminants in triisob ith a complex catalyst	utyl aluminum on the	process of isoprene	>
SOURCE: Vsesoyuz	znyy nauchno-issledovatel Izoprena kompleksnymi kat:	skir inatitus		1
Polimerizatsiya i complex catalysts	Zoprena kompleksnymi kata B). Moscow, Izd-vo Khimiya	alizatorami (Polymeri: a, 1964, 91-100	cheskogo kauchuka. Cation of isoprene by	
TOPIC TAGS: cont Ziegler catalyst	aminant, triisobutyl alum	ninum, isoprene, polym	er, rubber,	
hydride, aluminum with Ziegler-type concentration was catalyst was 3 wt	fect of contaminants presisobutylchloride, salts disobutylisobutoxide, a catalyst was studied at 15-20 vol % based on rea % based on isoprene. Af a ethyl alcohol. The eff	nd isobutylene) on is 20°C in an isopentane ction mixture and con	minum diisobutyl- oprene polymerizatio solvent. Isoprene centration of the	
were quenched with		ect of Indiatedial Con-	taminants was judged	
Were quenched with Card 1/2			성이 전하다 내 보면 한 수 없었다.	TEN SE

in terms of properties wt % of iso butyl alumi rubber qual	characteristic visc of vulcanized produ- butylene and up to num) has no effect ity. Catalyst cont de, and aluminum di quality. Orig. ar	1 wt % of alumion either the raining aluminum	num butyl steamate of isopremate of isopremate disobutylisomate less activ	rate (based on a polymerization outoxide, aluming and they give	n or the num diiso- rubbers
or interior	240ct64	encl:	00	SUB CODE	00,60
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Card 2/2/			是 [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [1995] [19		

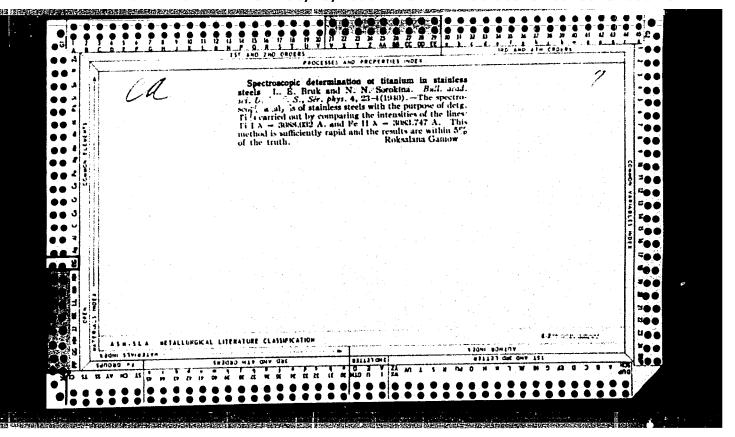
BLYAKHER, I.G.; SOROKINA, N.M.

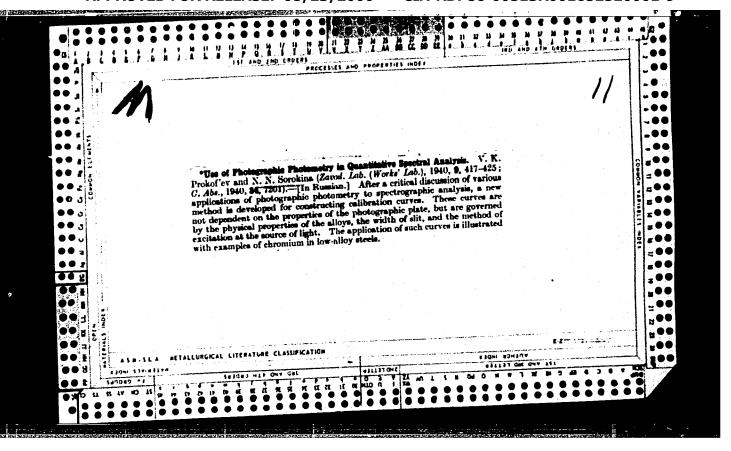
Manufacture of red oxide by means of thermal decomposition
of pulverized iron sulfate. Lakokras.mat.i ikh prim. no.3:42-44
(MIRA 15:7)

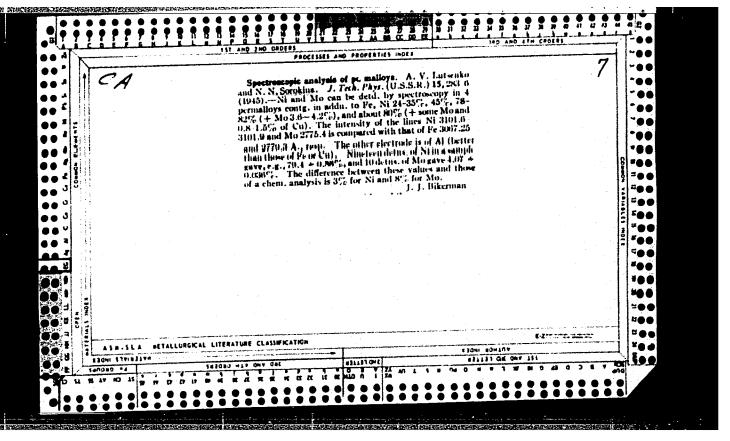
162.

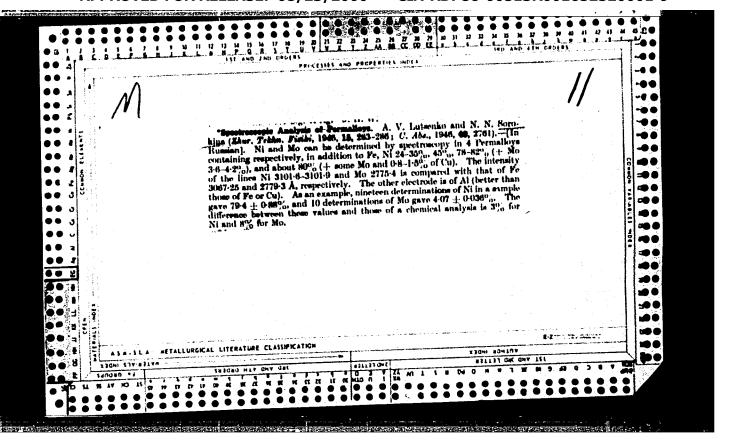
(Iron oxides)

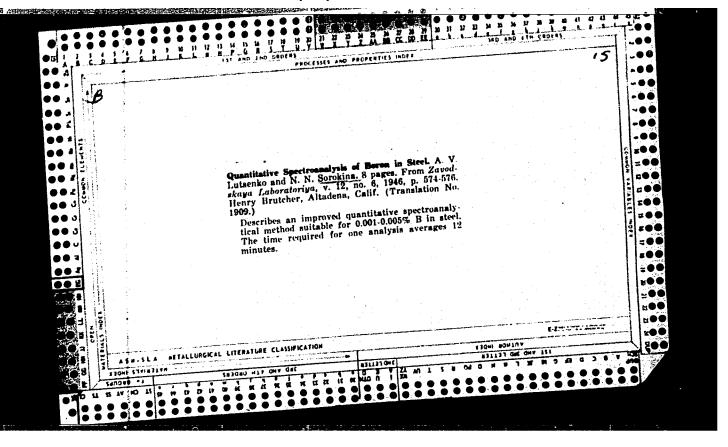
(Iron sulfates)







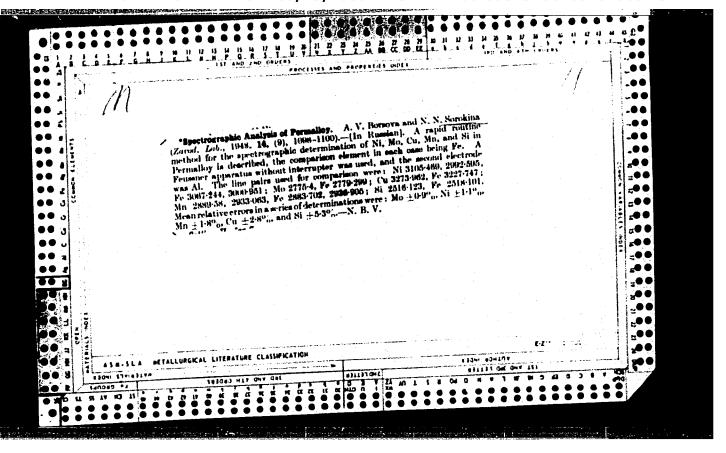




SOROKINA, N. N. Cand. Geolog-Mineralog Sci.

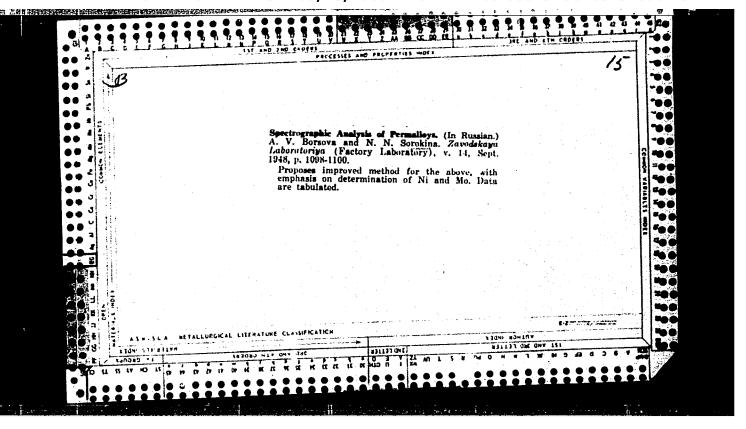
Dissertation: "Geological Structure and Petroleum-Gas-Bearing Possibilities of the Crimean Steppe." Moscow Order of the Labor Red Banner Petroleum Inst. imeni Academician I. M. Gubkin. 10 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)



SOROKINA, N. N.

Mor., Sci. Res. Inst. Qualitative Steel & Iron Alloys, -1944. Mor. Central Sci. Res. Inst. Ferrous Metals, -c1948-c1950-. "Spectral Analysis of Permalloys," Zhur. Tekh. Fiz., 15, Nos. 4-5, 1945; "Spectral Determination of Small Amounts of Beron, Vanadium, Titanium and Alumimum in Steel," Iz. Ak. Nauk SSR, Ser. Fiz. 11, No. 3, 1947; "Spectral Analysis of Permalloy Float," Zavod. Lab., 14, No.99, 1948; "Spectrographic Investigation of Calibrating Gurves for Hard Alloys and Solutions," Iz. Ak. Nauk SSSR, Ser. Fiz., 14, No. 5, 1950 14, No. 5, 1950



USSR/Metals - Spectrography

"Spectrographic Investigation of Calibrating Curves for Hard Alloys and Sclutions," N. N. Sorokina, Cen Sci Res Inst for Ferrometallurgy

"Iz Ak Nauk SSSR, Ser Fiz" Vol XIV, No 5, pp 567-571

Prepn of standard alloys for calibration is difficult. Substitution of alloys by soln simplifies problem. Substitution is possible because calibrating curves for alloys and soln are found to be parallel, either coinciding or having parallel shift.

172750

USSR/ Chemistry - Spectral analysis

Card 1/1

Pub. 43 - 56/97

Authors

: Sorokina, N. N.

Title

About the quantitative spectral analysis for a greater range of

concentrations

Periodical:

Izv. AN SSSR. Ser. fiz. 18/22, page 277, Mar-Apr 1954

Abstract

Various binary alloys - Ni-Cr, Mn-Fe, Cr-Fe, Ni-Fe and complex alloys - Ni-Cr-Fe, Ni-Co-Fe, Co-Ni-Fe as well as solutions of these alloys were investigated to determine the applicability of quantitative spectral analysis methods at greater concentrations of these alloys. The alloys investigated showed no effect usually due to the physico-chemical processes occurring on the electrodes. The calibrated curves in new coordinates for all alloys tested appeared in the form of straight lines

thus indicating the adaptability of the spectral analysis method.

Institution

Central Scientific Research Institute of Ferrous Metallurgy

Submitted

....

SOROKINA, N.N.; FREGER, D.P., tekhn.red.

[Curtailing the number of standards for spectrum analysis]

Sokrashchenie kolichestva etalonov pri provedenii spektral'nogo analiza. Leningrad, 1955. 16 p. (Leningradskii dom nauchno-

tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.6(674)) (MIRA 10:12)

(Spectrum analysis)

S/081/61/000/020/036/089 B117/B147

公司,我们们是在美国国际的国际和特别的对象。

AUTHORS:

Buyanov, N. V., Razumova, G. P., Sorokina, N. N., Yakovlev,

TITLE:

Spectrochemical method of determining small impurities in

metallical chromium

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1961, 124, abstract 20D146 (Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, no. 19,

1960, 65 - 71)

TEXT: In the analysis of metallical chromium, the chemical concentration of impurities (Cd, Sb, Bi, Pb, Sn) is conducted by treating acid hydrogen sulfide solutions with the use of copper as a collector. For producing standards, 3 g of pure metallic chromium is mixed in a quartz glass with the determinable elements and 30 - 40 milliliters of HCl, and heated until dissolution. The resulting solutions are concentrated by evaporation. Then, 20 milliliters of 50% citric acid solution, 5 milliliters of HCl, and 3 milliliters of CuNO₃ solution (10 mg/milliliter) are added. The solution

Card 1/3

s/081/61/000/020/036/089 B117/B147

CONTROL DE L'ACTION DE L'ACTIO

Spectrochemical method of determining...

is adjusted to pH = 2 - 3 by means of NH_AOH , and filled up with 180 milliliters of water. HoS is passed through for 20 min at a rate of 80-100 bubbles a minute. After 1 hr, the precipitates are filtered, washed with a solution containing H2S and CH3COONa, dried, ashed, and calcinated at Samples are treated 600°C; thereafter, the standards are ready for use. similarly but without adding solutions of elements. The resulting concentrate weighing ~50 mg is mixed with carbon powder (1:1), and introduced in the opening of a carbon electrode (3.4 mm diameter and 9 mm depth). The electrode diameter is reduced to 2 mm near the opening. The spectrum is excited in an a-c arc at 12 a, and photographed (30 sec) on a medium-sized MCT-22 (ISP-22) spectrograph with a 0.01 slit and an electrode spacing of 1.2 mm. Curves of evaporation of substances from the electrode were studied. Analysis is performed by the method of photometric interpolation with respect to the lines (in A): Pb 2614 - Cu 2630, Bi 3067 - Cu 3088, Sb 2598 - Cu 2630, Sn 2429 - Cu 2441, and Cd 2288 - Cu 2276. The calibration curves are straight for the concentration range of 1.10-4-1.10 Depending on the element, the analytical error is ± 10 - 19%. The results Card 2/3

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Spectroche	mical method o	I defermrit	rug				1
of the spe factory ag	ctrum analysis reement. [Abs	and of otl tracter's	ner analy note: Com	tical met plete tra	nods are inslation	·]	
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Card 3/3	•						

PHASE I BOOK EXPLOITATION

Sov/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related tific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular problems in controlling the chemical composition of various materials sis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical indusin ferrous and nonferrous metallurgy, geology, chemical indusin ferrous and nonferrous metallurgy, geology, chemical indusin for help in preparing the materials for the press.

References follow the individual articles.

Programme Control of the Control of		5
Materials of the Third Ural Conference (Cont.)	SOV/6181	
Fishman, I. S. Remarks on a system of standards for analysis of complex alloys	73	
Shiryayeva, N. Ye., Yu. I. Mal'kov, and R. A. Kozlova. Photoelectric-stylometer analysis of vanadium cast irons	76	
Basova, Ye. P., A. B. Shayevich, and S. B. Shubina. Spectr graphic determination of harmful non-ferrous metal impur in raw material intended for production of metallic chro	o- itie s	
Sorokina. N. N. Spectral determination of cerium, lanthanum, and barium in steel	80	
Shayevich, A. B., and N. D. Startseva. Spectral determinat of vanadium, manganese, silicon, and chromium in ferrovanadium	10n 86	
Gutkina, R. I. Chemical-spectral method of analysis of hig purity nickel	gh- 88	
Card 7/15		

SOROKINA, N.N.; GOLUBEVA, V.M.

Spectral analysis of steel and alloys for rare earth elements.
Zav.lab. 29 no.5:559-560 '63. (MIRA 16:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P.Bardina.
(Steel--Spectra) (Alloys-Spectra) (Rare earths--Spectra)

SOROLINA, N.N.; GOLUBEVA, V.M.

Spectroscopic determination of cerium and lanthanum in pure metals, steels, and alloys. Sbor.trud. TSNIICHM no.31:41-45 '63. (MRA 16:7)

(Metals--Spectra) (Cerium-Spectra) (Lanthanum--Spectra)

L 58900-65 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b)/EWA(h) Pad/Peb IJP(c)
ACCESSION NR: AP5016096 JD/HW/JG UR/0075/65/020/006/0745/0747
543.42

AUTHOR: Fedorov, A. A., Sorokina, N. N.

TITLE: Spectrochemical determination of samarium, gadolinium, dysprosium, erbium, and scandium (0.01-0.6%) in steels and alloys

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 6, 1965, 745-747

TOPIC TAGS: samarium, gadolinium, dysprosium, erbium, scandium, chromium steel, nickel steel, nickel alloy, steel analysis, <u>rare earth</u> determination, spectroscopic analysis

ABSTRACT: A spectrochemical method was developed for determining 0.01-0.6% Sm in chromium-nickel steels and nickel-base alloys, and for determining Gd, Dy, Er, and Sc (0.01-0.6%) in alloys of metallic iron with rare earth elements or scandium and in medium-alloy steels. The chemical preparation of the materials to be analyzed is described. The spectral analysis of the concentrates thus obtained was performed with an ISP-51 spectrograph using a UF-84 camera or with a DFS-13 diffraction spectrograph, the method of three standards being used. The analytical lines for each element are listed. The error of the method in determining from 1 x 10⁻² to 6 x 10⁻¹ wt. % scandium ranges from

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$\pm 3 \times 10^{-3}$ to $\pm 3 \times 10^{-2}$ %, re	espectively. The method w	vas thus shown to be completely	
reliable. "The authors expreand I. A. Vasina, who partic	ess their appreciation to Z. ipated in this work." Orig	M. Sokolova, V. M. Golubeva, art. has: 1 table.	
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P. Bardina, Moscow (Centra	Scientific Research Instit	ute of Ferrous Metallurgy)	
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SOROKINA, N.N.; KONDRAT'YEV, P.A.

Spectral method of determining carbon based on cyanogen spectra. Zav. lab. 31 no.11:1344-1345 165. (MIRA 19:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni Bardina.

L 47085-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG ACC NR: AT6030228 SOURCE CODE: UR/2776/66/000/049/0084/0085
AUTHOR: Sorokina, N. N.; Fedorov, A. A.; Golubeva, V. M.; Chernyakhovskaya, F. V.
ORG: none 47
TITLE: Chemical-spectroscopic method of determining the samarium content in 1Kh13N16B
and 12KhlMF steels, and KhN77YuR alloy
SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 49, 1966. Novyye metody ispytaniy metallov; khimicheskiy kontrol'
v metallurgii (New methods in the analysis of metals; chemical control in metallurgy), 84-85
TOPIC TAGS: samarium, spectroscopy, metal chemical analysis
ABSTRACT: A chemical-spectroscopic method of determining the samarium content in
1Kh13N16B, and 12Kh1MF steels, and kmv//link alloy has been added to spectroscopic.
analysis. With this method, samarium contents of 0.001—0.1% can be determined with respective errors of ±0.0003—0.008%. Orig. art. has: 1 table.
SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 001/
Card 1/1 ///

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652520001-9"

SOURCE CODE: UR/2776/66/000/049/0048/0052 ACC-NIR: AT6030227 AUTHOR: Lenskaya, K. K.; Tikhomirova, O. F.; Golubeva, V. M.; Sorokina, N. N.; Suchelenkova, L. M. ORG: none นใ TITIE: Spectrochemical method for determining the composition of tungsten-molybdenum alloys SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 49, 1966. Novyyo metody ispytaniy metallov; khimicheskiy kontrol v metallurgii (New methods in the analysis of metals; chemical control in metallurgy). 48-52 TOPIC TAGS: tungsten containing alloy, molybdenum containing alloy, spectrographic analysis, metal chemical analysis ABSTRACT: The article describes a spectrochemical method for analysis of tungstenmolybdenum alloys for titanium and zirconium (0.010.50%); tungsten (10-70%); and hafnium, lanthanum, land yttrium (0.001-0.1%). The contents of titanium, zirconium, hafnium, lanthanum, and yttrium are determined in tungsten-molybdenum alloys of constant composition, and the tungsten composition in alloys of varying composition. The proposed method for determination of titanium, zirconium, hafnium, lanthamum, and Card 1/2

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SCROKINA, N.N.
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J. 17595-65
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ACCESSION NR AM4046730
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Samarin, A. M., ed. (Corresponding member, Academy of Sciences, U.S.S.R.)\beta + l
Steel production; handbook (Staleplavil'noye proizvodstvo; spravochnik), t. 2., Moscow, Izd-vo "Metallurgiya", 1964, 1039 p. illus., biblio., tables. Errata slip inserted. 5,850 copies printed.
TOPIC TAGS: stool, open-hearth furnace, quality control, refractory
TABLE OF CONTENTS [abridged]:
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Ch. XVIII. Thermal operation of an open-hearth furnace (Ye. A. Kapustin) --
603
Ch. XIX. Auxiliary thermal equipment in steel production (B. G. Turovskiy)
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720
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Ch. XXIV. Cooling and cleaning converter gases (A. I. Berezhinskiy) -- 778
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793
Ch. XXVI. Supplying steelmaking shops with compressed air (G. A. Timoshko) --
807
Part 10. Methoda of quality control and teating
Ch. XXVII. Chemical analysis (P. Ya. Yakovlov) -- 818
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Ch. XXVIII. Spectral analysis (P. Ya. Yakovlov) -- 840
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851
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Ch. XXXII. Analysis of gases in metals and alloys (L.L.Kunin, T. Ya.

Izananova, and Ye. M. Chietyakova) -- 887
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SOROKINA, N.N.

Basic features of the tectonic structure of the Middle Bast. Trudy MNI no.19:196-225 '57.

(Near Mast-Geology, Structural)

KRASNYKH, I.G.; ZHEREBCHENKO, P.G.; MURASHOVA, V.S.; SUVOROV, N.N.; SOROKINA, N.P.; SHASHKOV, V.S.

Redioprotective action of 5-methoxytryptamine and other alkoxytryptamines. adiobiologiia 2 no.1:156-160 Ja 162 (MIRA 18:1)

SUVOROV, N.N.; SOROKINA, N.P.; SHEYNKER, Yu.N.

Mechanism of Fischer indole synthesis. Khim. nauka i prom. 2 no.3: 394-395 157. (MIRA 10:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-tekhnologicheskiy institut im. S. Ordzhonikidze.

(Indole)

79-28-4-54/60

AUTHOR:

Suvorov, N. N., Sorokina, N. P., Sheynker, Yu. N

TITLE:

Research in the Field of the Indole Derivatives (Issledovaniya v oblasti proizvodnykh indola) V. Mechanism of the E. Fischer

Reaction (V.K voprosu o

mekhanizme reaktsii E. Fishera)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 1090-1097 (USSR)

ABSTRACT:

The conversion of aryl hydrazones of carbonyl compounds into indole derivatives (reaction according to E. Fischer) is the most important and most widely used method for the production of the latter. This reaction may be carried out by two ways: The first is by E. Fischer (Ref 2) and used acids as condensing agents (mineral acids, anhydrous zinc chloride, boron trifluoride etc.). On this occasion there is at least 1 mol condensing agent per 1 mol aryl hydrazone - practically a great excess of it is taken. The second method is by A. Ye. Arbuzov (Ref 3) and is based on the catalytic decomposition of the aryl hydrazones. In both cases the formation of the indole derivative takes place under precipitation of 1 mol ammonia (in the case of the method according to E.

Card 1/4

79-28-4-54/60

Research in the Field of the Indole Derivatives. V. lechanism of the E. Fischer Reaction

Fischer as ammonium salt) from aryl hydrazone. This precipitation takes place due to a previous intramolecular transposition of aryl hydrazone. The mechanism of this interesting reaction was already investigated in technical publications (Refs 4, 5). G. and R. Robinson (Ref 5) divided the conversion of aryl hydrazone into the corresponding indole derivative into three stages:

1) Tautomeric conversion of aryl hydrazone (I) into the corresponding unsaturated hydrazine (II).

2) Ortho-benzidine transposition of the hydrazo compound (II) into the unsaturated diamine (III).

3) Formation of the indole ring (IV) by precipitation of one ammonia molecule.

By means of an appropriate process (reaction carried out according to E. Fischer in acetic anhydride as medium and alkaline saponification of the diacetyl derivative of the unsaturated hydrazine) the authors succeeded in dividing this reaction into three stages which agree with the three stages of the mechanism suggested by G. and R. Robinson.

Card 2/4

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652520001-9"

79-28-4-54/60

Research in the Field of the Indole Derivatives. V. Mechanism of the Ξ . Fischer Reaction

$$\begin{array}{c}
CH_{2}R_{2} \\
N-N=C-R_{1}
\end{array}$$

$$\begin{array}{c}
CH-R_{2} \\
N-N=C-R_{1}
\end{array}$$

$$\begin{array}{c}
CH-R_{2} \\
NH_{2}
\end{array}$$

$$\begin{array}{c}
CH-R_{2} \\
NH_{2}
\end{array}$$

$$\begin{array}{c}
CH-R_{2} \\
NH_{2}
\end{array}$$

$$\begin{array}{c}
CH-R_{2}
\end{array}$$

$$\begin{array}{c}$$

Both intermediate products could be isolated in acetylated form from phenylhydrazone of the methyl-ethyl ketone used as example. Their structure and the conditions of their conversion into the corresponding indole derivative were investigated. On this occasion a direct proof was obtained for the correctness of the scheme by G. and R. Robinson. It was found that the formation of the unsaturated hydra-

Card 3/4

79-28-4-54/60

Research in the Field of the Indole Derivatives, V. Mechanism of the M. Piecher Reaction

zine takes place under the presence of acid catalysts; ortho benzidine transposition does not absolutely need this catalysis but can be made also in the alkaline medium. The formation of the indole ring which can be catalyzed by hydrogen ions takes place very rapidly. It can be achieved also by thermal means.

The carrying out of the mentioned formation reactions is described in detail in an experimental part. There are 2 figures and 26 references, 3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovateliskiy khimiko-farmatsevti-

cheskiy institut imeni S. Ordzhonikidze

(All-Union Chemical Pharmaceutical Scientific Research

Institute imeni S. Ordzhonikidze)

PRESENTED: March 11; 1957

SUBMITTED: April 13, 1957

Card 4/4

(3) STHORE:

Suvorov, N. N., Sorokina, N. P.,

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Sheynker, Yu. N.

TILE:

Investigations in the Field of Indole Derivatives (Issledovaniya v oblasti proizvodnykh indola). VI. The Mechanism of E. Fischer's Reaction. Investigation of the Transformations of the Methylphonylhydrazone of the Methylethyl Ketone (VI. Mekhanizm reaktsii E. Fishera. Izucheniye prevrashcheniy metilfenil-

gidrazona metiletilketona)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 979-985 (USSR)

ABSTRACT:

The authors showed earlier that the phenylhydrazone of methylethyl ketone gives in the case of heating with the acetic acid anhydride in the presence of n-toluene sulfo acid the 2-(N,N'-diacetyl-β-phenylhydrazine)...butene-2 in a high yield. This compound is the diacetyl derivative of the enhydrazine, the first intermediate product of Fischer's reaction (Ref 1). The problem of the behavior of the methyl-phenylhydrazone of the methylethyl ketone (1) under analogous conditions was of theoretical interest. The theoretical assumption by the authors that the last reaction is bound to proceed differently from that with the not substituted phenyl-

Card 1/3

Investigations in the Field of Indole Derivatives. VI. The Mechanism of E. Fischer's Reaction. Investigation of the Transformations of the Methylphenylhydrazone of the Methylethyl Ketone

507/79-29-3-49/61

hydrazone was experimentally confirmed. By means of distillation in vacuum, the chromatography on aluminum oxide, and repeated re-crystallization five compounds could be separated from the product obtained in the case of boiling of the methylphenylhydrazone of the methylethyl ketone with the acetic acid anhydride in the presence of n-toluene sulfo acid. One compound turned out to be an N-methyl acetanilide (II), the other one a β -acetyl- α -methyl- α -phenylhydrazine (III). The formation of these products is explained by the low stability of the N-N- and C-N bonds. The other three compounds were isomeric to one another. They all form 2,4-dinitro-phenyl-hydrazones a fact which points out the presence of a carbonyl group. The elementary composition, the capability of forming red picrates, as well as their infrared spectra permit the assumption that these compounds are acetyl-1,2,3-trimethyl-indole-isomers and differ from one another only by the position of the acetyl group in the benzene ring. The two figures show the infrared and ultraviolet absorption spectra of the compounds obtained.

Card 2/3

Investigations in the Field of Indole Derivatives.

sov/79-29-3-49/61

VI. The Mechanism of E. Fischer's Reaction.
Investigation of the Transformations of the Methylphenylhydrazone of the Methylethyl Ketone

There are 2 figures and 6 references, 3 of which are Soviet.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemico-

pharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED:

February 6, 1958

Card 3/3

SUVOROV, N.N.; SOROKINA, N.P.

Indole derivatives. Part 7: Mechanism of E. Fischer's reactions. Structure of isomeric Bz-ethyl-1,2,3-trimethylindoles. Zhur.ob.khim. 30 no.6:2055-2061 Je '60.(MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordshonikidze. (Indole)

ZHEREBCHENKO, P.G.; SUVOROV, N.N.; MURASHOVA, V.S.; FREOBRAZHENSKAYA,
M.N.; SOROKINA, N.P.; FEDGOVA, M.V.

Radioprotective activity of some tryptamine derivatives and their homologues. Med.rad. 6 no.8:27-32 Ag '61. (MIRA 14:8)

(RADIATION PROTECTION) (INDOLE)

26951 3/205/62/002/001/003/010 D263/D302

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AUTHORS:

Krasnykh, I.G., Zherebchenko, P.G., Kurashova, V.S., Suyorov, E. H., Sorokina, N.P., and Shashkov, V.S.

TITLE:

The radioprotective effect of 5-methoxytryptamine and

other alkozytryptamines

PERIODICAL: Radiobiologiya, v. 2, no. 1, 1962, 156 - 160

TEXT: The radioprotective action of 4-, 5-, 6-, and 7-methoxytry-ptamine, and 5-ethoxy-, 5-propoxy-, 5-butoxy-, and 5-benzoxytryptamine was investigated. 2,900 white mice irradiated at 700 r and 120 white rats at 800 r were studied. There were 3 series of experiments. In the first, results showed that 5-methoxytryptamine gave over 60 % survival in irradiated mice. Further study in the second series revealed a prophylactic effect over a wide dose range (5 - 150 mg/kg) with an average 68.3 % survival at the optimum 75 mg/kg. Administered by intraperitoneal injection even 1 - 2 hours before dirradiation there was a maximum 34 % survival, and orally at the optimum 250 mg/kg; 10 - 15 minutes before irradiation, there was 54 % cond 1/2 Card 1/2

S/205/62/002/001/008/010 D268/D302

The radioprotective effect of ...

survival, whereas serotonin was ineffective. Subcutaneous injection gave the same protection as intraperitoneal. In the third series of experiments on rats irradiated at 800 r survival was 50 - 63 %. Oral administration also gave protection. The experimental data showed the relationship between the chemical structure of some alkomycytyptamines and radioprotection. Structural changes in tryptamine, by introducing the methoxy radical at different positions on the indole ring increased or decreased radioprotection, increase occuring only when the methoxy radical was introduced at the fifth position. 5-methoxytryptamine gave protection comparable to that of serotonin. Its effectiveness may be due to more selective penetration of radiosensitive tissue. There are 4 figures and 11 recention of radiosensitive tissue. There are 4 figures and 11 recention of radiosensitive tissue. There are 4 figures and 11 recentences: 5 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: P.J.H. wang, J.G. kereiakes, Radiation Res., 11, 2, 476, 1959; Z.M. Bacq, and others, Experientia, 15, 5, 175, 1959; Z.M. Bacq, P. Alexander, Pundamentals of radiobiology, London, 1955; Z.K. Bacq, Acta radio1.

SUBMITTED: August 29, 1961 Card 2/2

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40477 \$/205/62/002/002/010/015 1020/1215

AUTHORS:

51 2418

Krasnykh, I. G., Zherebchenko, P. G., Murashova, V. S., Suvorov, N. N. and Sorokina,

N. P.

TITLE.

Increased radiation-protective effect of the combined administration of 5-metoxytrypta-

mine and merkamine

PERIODICAL: Radiobiologiya, v. 2, no. 2, 1962, 298-303

TEXT: This is the continuation of a previous study. White mice weighing 18-22 g were irradiated with 700 (LD 95/30), 800, 900, and 1000 r. White rats weighing 150-200 g received 800 r (LD 90/30). One group of animals received 75 mg/kg 5-metoxytryptamine, a second group — 150 mg/kg merkamine, a third received both drugs in the same dosage, and a fourth — no medication. Survival, body weight, amount of leucocyte in the peripheral blood, early degenerative changes in the bone marrow and spleen cells, and the weight of the spleen, thymus, and liver were considered. The combined administration of both drugs resulted in a summation of the radiation-protective effect. The survival was greater, the radiation sickness was milder, and recovery

occurred earlier. Treatment of mice irradiated with 1000 r resulted in a 27.5% survival. Degenerative changes in the bone marrow and spleen cells, as well as a decrease in the weight of spleen and thymus, were less

Card 1/2

Increased radiation-protective effect...

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marked in animals thus treated. When 5-metoxytryptamine was combined with β -mercaptopropylamine good results were obtained, corresponding to those obtained by the combined use of serotonin and merkamin. There are 4 figures and 4 tables.

SUBMITTED: August 29, 1961.

Card 2/2

SHAGALOV, L.B.; SOROKINA, N.P.; SUVOROV, N.N.

Derivatives of indole. Part 21:Synthesis of 4- and 6-chloroindolylbutyric acids. Zhur. ob. khim. 34 no. 5:1592-1595 My '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze.

SUVOROV, N.N.; SOROKINA, N.P.; TSVETKOVA, G.N.

Derivatives of indole. Part 22: Improved synthesis of tryptamines. Zhur. ob. khim. 34 no. 5:1595-1598 My '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze.

SHCHUKINA, L.A.; SUVOROV, N.N.; NEKLYUDOV, A.D.; SOROKINA, N.P.

Synthesis of melatonin analogs. Izv. AN SSSR. Ser. khim. no.1:107-111 '66. (MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted August 1, 1963.

EWT(m)/EWP(v)/EWP(j)/T LIP(c) WW/RM 21,727-66 ACC NR. AP6005403 UR/0323/65/000/005/0039/0046 SOURCE CODE: (A) AUTHOR: Marchenko, L. N. (Engineer); Kotov, M. P. (Professor); Sorokina, N. S. (Candidate of technical sciences); Chernysheva, T. (Candidate of chemical sciences) ORG: Kiev Technological Institute of Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti). Investigation of the physical and mechanical properties of cements with polyamide, polyester, and phenolformaldehyde resin bases Tekhnologiya legkoy promyshlennosti, no. 5, 1965, SOURCE: IVUZ. 39-46 TOPIC TAGS: cement, polyamide resin, phenolformaldehyde resin, polyester, elasticity, adhesive, adhesion ABSTRACT: New thermoplastic, rapid-setting, and elastic adhesive resins have been obtained with polyamide, polyester, and phenolformaldehyde resin bases. These cement compositions (KTILOL) can be used for obtaining an adhesive-reinforcing seam for mechanized adhesive joining of parts of footwear and clothing. The effect was studied of the phenolformaldehyde resins on the properties of KTILOL cement. The effects of various polyester resins on the strength and Card 1/2

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ACC NR: AP6005403					
elasticity of a	dhogiya idint	a waa analyz	ed Compos	itions b	ased on
polyether resin	a pomina o j. Tuestae lorno	I molar rati	o of anhydr	ide and	alcohol
with the acid n	umher hefore	the moment o	f gelatiniz	ation h	ave greater
adhesive-inint	strength and	less adhesiv	e-seam thic	kness.	orig. art.
has: 5 figures	and 4 tables.	Based on	author's co	nclusion	s] [NT]
SUB CODE: 11/	SUBM DATE:	18Jan65/	ORIG REF:	010\	OLH KER: 003/
Card 2/2 MgS					
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MOSTOFIN, A.A., inzh.; SOROKINA, N.S., inzh.

TE KTI salt meters with degassing and enrichment of the samples. Teploenergetika 8 no.4:85-89 Ap 161. (MIRA 14:8)

1. TSentral'nyy kotloturbinnyy institut. (Feed water)

SOROKINA, N. S.

"Characteristics of the Metabolism and Productivity of Crossbred Pigs." Cand Agr Sci, Moscow Agricultural Acad imeni K. A. Timiryazev, Moscow, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

中国的社会的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。 1

SOROKINA, N.S., kand. khimich. nauk, dotsent; BOGDANOV, L.A., inzh.; ANAN YEVA, L.A., inzh.; KHARLASHKIN, V.I., inzh.; ZHILA, T.I., inzh.; PIVOVAROVA, T.V., inzh.; KOTOV, M.P., prof.

Some problems in the cyanoethylation, carboxylation, alkylation and acylation of gelatin. Izv. vys. ucheb. zav.; tekh. leg. prom. no.3:70-75 *63. (MIRA 16:7)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii kozhi. (Gelatin) (Polymerization)

EWT(m)/EPF(c)/EWP(v)/EWP(j)/I ACCESSION NR: AP5020514 UR/0323/65/000/004/0040/0045 LL AUTHORS: Kotov, M. P. (Professor); Sorokina, N. S. (Candidate of chemical sciences, locent); Marchenko, L. N. (Engineer); Chernysheva, T. Ye. (Candidate of chemical sciences) 44,55 44,55 TITLE: Changes in physical and mechanical properties of mixed polyamide-polyester resing, with various component ratios IVUZ. Tekhnologiya legkoy promyshlennosti, no. 4, 1965, 40-45 44,55 TOPIC TAGS: resin, polyamide, adhesion, mechanical stress ABSTRACT: This study presents data on the mechanical strength and adhesive properties of the resultant product when various amounts of pentapathalate (phthalic anhydride : pentaerythritol = 1 : 1) or technical alkyd resin brand 1350, first group) are introduced into polyamide resin AK 50/50. If he mixture was prepared in a mutual solvent at 1800 in a stream of nitrogen. The films formed from 20% solution of this composition in ethyl alcohol were carefully dried at a constant relative humidity until the solvent was completely removed. It was found that introduction of 5 to 10% (by weight) of polyester results in lowering the melting temperature and increases the cohesive strength of the film, while the adhasive ability of the polyamide-polyester composition increases with addition of Card 1/2

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.0-50% of polyesters. Streng or melt fusion) is practical	gth of the sean formed (e)	ther by means of film or	
dhesive strength of the poly	rester-containing resins a	re explained by the forma-	
ion of cross- and three-dime	ana tonat tinka 3ea de caeu	borameric cuarus. Orig.	Tar State
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L 08137-67 EWT(m)/EWP(v)/EWP(j) IJP(c) WW/RM ACC NR: AP6029270 (A) SOURCE CODE: UR/0323/66/000/003/0038/0042	ì
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AUTHOR: Kotov, M. P. (Doctor of Technical Sciences, Professor); Sorokina, N. S. (Candidate of Chemical Sciences, Docent); Knarlashkin, V. I. (Engineer); Kuz'mina, V. I. (Engineer); Petrova, T. A. (Engineer); Bulgakov, P. M. (Engineer)	
ORG: Kiev Technological Institute for Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti)	
TITLE: Technological conditions for preparing and applying thermoplastic adhesive KTILOL-11 in beading parts of shoe uppers	
SOURCE: VIVUZ. Tekhnologiya legkoy promyshlennosti, no. 3, 1966, 38-42	•
TOPIC TAGS: A footgear, adhesive, water repellant lubricant / KTILOL- // ADHEGIVE	
ABSTRACT: The new adhesive KTILOL-11 is prepared by mixing and heating to 190-200°C 50% polyamide 54 with 18-30% modified alkyd, 4-8% plasticizer KPT and 27-18% novolac type phenol-formaldehyde resin. The alkyd is previously modified by heating, with removal of water, to an acid number not over 30 and a melting point not below 60°. Such compositions containing no more than 24% alkyd and 6% plasticizer are suitable for making adhesive coated strands which can be coiled without sticking. The adhesive-coated threads of 1.0-1.2 x 10 ⁻³ m diameter were made by passing cotton thread through	
the molten adhesive and through a die. Various waterproofing compositions were tried	_
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ACC NR: AP6029270

to keep the threads from sticking during storage. A 5% solution of stearic acid in mixed solvent (5 parts by weight mineral oil, 95 kerosene) prevented sticking for two days; coating with mineral oil alone also helped somewhat. Other precautions in making the adhesive-coated strands: the resin composition should not be overheated during preparation; sufficient time for cooling the adhesive on the thread is needed—the take-up spool should be not loss than 2 meters from the die; optimum rate is 20-25 rev/min. L. N. Zavel'gel'skii, Senior Engineer of the "Burevestnik" factory took part in the work. Orig. art. has: 2 tables.

SUB CODE: 11, 13/ SUBM DATE: 20Jan66/ ORIG REF: 004

Cord 2/2 not

SOURCE CODE: UR/0323/66/000/005/0019/0023 AP7004042 (A)

AUTHOR: Marchenko, L. N. (Engineer); Sorokina. N. S. (Candidate of chemical sciences; Docent); Kotov, M. P. (Doctor of technical sciences; Professor)

ORG: Kiev Technological Institute for the Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti)

TITLE: Properties of copolymerized polyamide and phenolformaldehyde resins

SOURCE: IVUZ. Tekhnologiya legkoy promyshlennosti, no. 5, 1966, 19-23

TOPIC TAGS: resin, polyamide, phenolformaldehyde, polymer, copolymerization, polyamide resin, phenolformaldehyde resin, cement, glue

ABSTRACT: Polyamide resins modified with various amounts of phenolformaldehyde novolak resins were investigated for use in glues for various materials including leather. It was shown that in glues containing 5-10% phenolformaldehyde resin, the property-composition curves pass a maximum which is explained as the chemical interaction of compounds followed by the formation of a branched [AM] polymer. Orig. art. has: 5 figures and 2 tables. SUB CODE: 11/SUBM DATE: 25Nov65/ORIG REF: 007/OTH REF: 002/

Card 1/1

SCRCKINA, N. V.

"Changes in the Nervous System in Crimean and Cmsk Hemorrhagic Fevers." Sub 26 Dec 51, Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 480, 9 May 55.

CHLENOV, L.G.; IOSELEVICH, F.I.; ROLLE, S.D.; SOROKINA, N.V.; FRENKEL', C.M.

On changes of the analytical function in cases of hypertonic illness. Zh. Nevropat. Psikhiat., '52, 52, no.9, 28-35. (MLRA 5:9) (PsA 27, no.8:6062 '53)

SOROKINA, N. V.

7894. Korsak, YE. K. I. SOROKINA, N. V. Uchebnoye posobiye dlya krukhkov Gso. sost: ye. K. Korsak I N. V. sorokina. Pod Red. N. I. Krakovskogo. Vil'nyus, "Sov. Litva", 1954. 160 S. S. Ill. 21 sm. (tsentr. Kom. o-va krasnogo kresta lssr). 5000 EKZ. Bespl.- na pereplete post. neukazany.--na perepletezagl; Gotov K sanitarnoy oborone sssr.-- NA litov. yaz.--(54-52758)

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SO: Knizhuaya Letopis', Vol. 7, 1955

SOROKINA, N.Ye.

Finishing furniture with color lacquer. Der.prom.5 no.9:20 S '56.
(MIRA 9:10)

1.Saratovskaya nebel'naya fabrika.
(Saratev--Furniture industry) (Lacquer and lacquering)

SOROKINA, N.Ye., inzhener.

Preparation of a universal indicator to determine hydrogen-ion concentration in resins. Der.prom. 6 no.1:8 Ja '57. (MLRA 10:2)

SOROKINA, N.Ye.; MATYUSHINA, N.I.

Particle boards with veneered frames. Der.prom. 10 no.10: 28 0 '61. (MIRA 14:9)

 Saratovskiy dorevoobrabatyvayushchiy kombinat. (Hardboard) (Veneers and veneering)

KHVOSTOVA, V.V., DELONE, N.L., SOROKINA, O.N., TRUKOV, V.L., TSELISHCHEV, S.P. CHAYKINA, K.V.

(WHEAT)

Development of soft wheat seedlings obtained from seeds irradiated with thermal neutrons [with summary in English]. Biofizika 3 no.4:459-465 156 (MIRA 11:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Laboratoriya biofiziki Moskovskogo ordena Lenina sel'skokhozyaystvennoy akademii im. K.A. Timiryazeva, Moskva.

(PLANTS, EFFECT OF RADIATION ON)

Strain BARRY STATE

-ally Dullivable Hants - Crains.

Mos Jour : Ref Thur - Biol., No 3, 1958, 1060)

Author : Sorokina, O.N.

Enot : Cimiryerovskoya Agricultural Academy

mittle : Protogine /Protoginiya/ in Wheat.

Orig Fub : Inv. Timiryazevsk. s.-kh. akad., 1957, No 2, 73-76

Abstract : In experiments conducted in the Takha on the study of the

phenomenon of protogine in wheat five phases of the development of the stigma /ryl'tse/ have been exposed. Experiments were set up to determine whether wheat grains which had been pollinated with stigmae of different age by using the pollen of that same variety or of another, variety /i.e. variety of wheat/ (Lyutestsens 329 and Eritrospermum 2411) took hold; other experiments aimed to clarify the sprouting of pollen tubes on stigmae of different age;

Card 1/2

Card 2/2

USSR/Cultivated Plants - Grains

Abs Jour

: Ref Zhur Biol., No 18, 1958, 82280

Author

: Sorokina, O.N., Laptev, Ya.P.

Inst

Title

: The Amount of Poilen in the Wheat Flowers in Wind

Follingtion

Orig Pub

: Vesta: 1.-kh. na ki, 1957, No 4, 34-40

Abstract

: Experiments in the investigation of the amo nt pollen grains taking part in the pollination of flowers under the conditions of free wind pollination of spring and winter wheat were conducted for 4 years at the P.I. Lisitsyn Selection Station (Moscow) and at Kharkov Selection Station. The amount of pollen grains taking a direct part in the pollination of the flowers was very nesligible although the saturation of the sarrounding air with pollen was fairly high and the capturing surface of the stigma was fairly large. The percentage of the seed

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USSR/Cultivated Plants - Grains.

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Abs Jour : Ref ZhurBiol., No 18, 1958, 82280

setting proved to be high, and the grains were developed normally and had a good germinating ability. The fact of the insignificant amo nt of the pollen taking part in the pollimation is explained, apparently, by the biological peculiarities of the wheat flower: the castrated flower opens up under the action of the swelling lodicules and closes when their turgor decreases. -- Ye.I. Saks

SOROKINA, OLN.; ANIKEYEVA, I.D.

Cytological study of embryos in neutron-irradiated wheat. TSitologiia 3 no.3:300-304 My-Je '61. (MIRA 14:6)

1. Laboratoriya radiatsionnoy genetiki Instituta biologicheskoy fiziki AN SSSR, Moskva.
(SEEDS) (PLANTS, EFFECT OF NEUTRONS ON)

SOROKINA, O.N.

Aegilops-wheat allopolyploids. Trudy MOIP. Otd.biol 5:1/2-1/47 (MIRA 16:5)

1. Laboratoriya radiats onnoy genetiki Instituta biofiziki AN SSSR, Moskva.

(WHEAT BREEDING) (POLYPLOIDY)

-	Cultivation of AN Tadzh. SSR.	barley in the eastern Pamirs. Trudy Bot. inst. 18:314-333 162. (MIRA 16:1)
		(Pamirs—Barley)
• 1		

ACCESSION NR: APLO27981

s/0205/64/004/002/0279/0283

AUTHOR: Sorokina, O. N.; Anikeyeva, I. D.; Iofa, E. I.

TITLE: Protective action of metabolites in radioresistant plants

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 279-283

TOPIC TAGS: metabolite, radioresistant plant, radiosensitive plant, radioresistant plant extract, barley seed, ionizing radiation, reduced radiosensitivity, Cruciferae

ABSTRACT: The present study investigates the possibility of introducing motabolites of radioresistant plants into radiosensitive plants to reduce the effects of ionizing radiation. The first of three experiments investigates the effects of radioresistant plant extracts acting on barley seeds for 19 hrs before irradiation (4000 r) and for 19 hrs after irradiation, the second investigates the effects of radioresistant plant extracts acting on barley seeds for 24 hrs before irradiation (500 r), and the third investigates the effect of radioresistant plant extracts acting on barley seeds with torn coleorhizas for 1 hr before irradiation. Survivability, growth, and chromosome

Card 1/2

ACCESSION NR: AP4027981

aberrations served as indices. Findings show that a number of radioresistant plant extracts reduce the radiosensitivity of barley seeds.
Various plants of the Cruciferae (mustard family) whose extracts contain mustard oil, rhodamide, thiocarbamide, and glucosides containing
sulfur display high radioprotective action. Vitamins and growth
promoting substances probably also increase radioresistance. Radioprotection is higher with extracts acting on seeds for a more prolonged period after irradiation. Orig. art. has: 5 tables.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biological Physics AN SSSR)

SUBMITTED: 180ct62

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OTHER: 003

Card 2/2

